HOSPITAL

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arizona occupational profiles

A Labor Market Information Publication of the Arizona Department of Economic Security

UTAH
COCONINO
MOHAVE
KINGMAN
FLAGSTAFF
NAVAJO
APACHE
HOLBROOK
ST. JOHNS
CALIFORNIA
PRESCOTT
YAVAPAI
NEW MEXICO
GILA
PHOENIX
GLOBE
YUMA
MARICOPA
FLORENCE
CLIFTON
GREENLEE
SAFFORD
PINAL
YUMA
GRAHAM
TUCSON
PIMA
COCHISE
MEXICO
SANTA CRUZ
BISBEE
NOGALES
ARIZONA

OCCUPATIONAL PROFILES

This Occupational Profile is one in a series of publications produced from information developed by the Occupational Employment Statistics survey. The survey is used to collect employment data, by county, for over 1,100 occupations in Arizona. From these surveys, which require the cooperation of the Arizona business community, current employment in the various occupations is determined, and from this an occupational outlook is formulated. The Occupational Profiles contain the survey findings and examine, individually, the industries of Arizona.

Industries surveyed and for which profiles are now available include:

Mining
Finance, Insurance, and Real Estate
Construction
Services
Government
Trade
Education Services
Manufacturing
Transportation, Communications, and Public Utilities
Hospitals

For further information, or to comment on any aspect of this program, please write to the address on the back cover.

INDUSTRY INFORMATION

INDUSTRY DESCRIPTION

This industry group includes establishments primarily engaged in providing diagnostic services, extensive medical treatment including surgery, continuous nursing services, as well as other hospital services. These establishments have an organized medical staff, inpatient beds, and equipment and facilities to provide complete health care.

Hospitals bring together various types of personnel and facilities for specific health maintenance and lifesaving efforts and related public health, educational, and research activities.

A more detailed description of the hospital services industry may be found in the Standard Industrial Classification (SIC) Manual[1] under code 806.

INDUSTRY CHARACTERISTICS

Hospitals are the largest single employer of health workers in Arizona. In 1980, employment in Arizona's hospitals averaged 41,000,[2] representing four percent of Arizona's workers.

General hospitals represent more than 90 percent of all hospitals in Arizona and employ approximately 95 percent of hospital workers. These hospitals care for patients with medical conditions which require diagnosis and medical/surgical treatment involving patient stay of a few days to a few weeks.

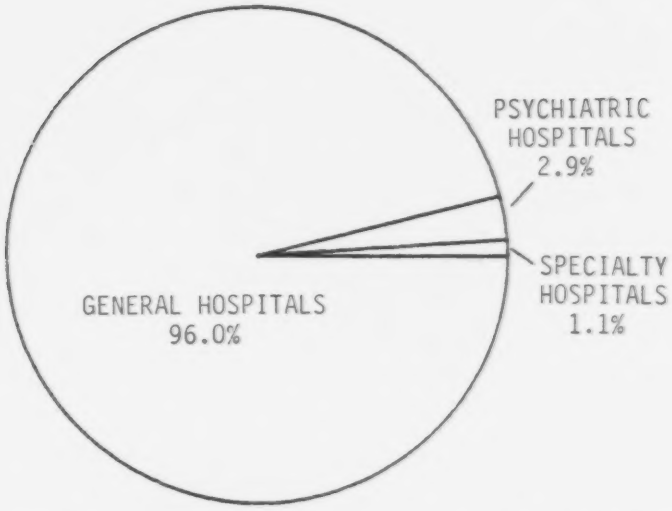
Psychiatric hospitals are specialty establishments which provide diagnostic services and inpatient treatment for the mentally ill. Because patients are often hospitalized for several weeks or more, these and other specialty hospitals are generally referred to as "long term" care facilities. The five psychiatric hospitals in Arizona employ less than 5 percent of the hospital workers in the State.

Specialty hospitals, except psychiatric, provide diagnostic and treatment services for specific conditions and diseases such as pregnancy; children's ailments; geriatric conditions; tuberculosis; eye, ear nose and throat diseases; and orthopedics. In 1980, the total average employment for Arizona's three specialty hospitals (two in Phoenix and one in Tucson) was 450 workers.

[1]Standard Industrial Classification Manual 1972 (Washington, D.C: U.S. Government Printing Office, 1972), p. 322.

[2]Hospitals owned and operated by firms primarily involved in other activities, i.e., mining and education, are not included.

FIGURE 1: HOSPITAL EMPLOYMENT
BY ACTIVITY, 1980



Hospital employment is concentrated in metropolitan areas, and its geographic distribution is similar to that of total Arizona employment. The number of hospitals, however, is divided equally between the metropolitan and rural counties. Approximately half of all Arizona hospitals are located outside of Maricopa and Pima counties, yet, they employ only 13 percent of Arizona's hospital workers. Based on this distribution, metropolitan hospitals employ an average 835 workers, whereas their rural counterparts average 130 employees. More specialized and a wider range of services to accommodate urban populations necessitates larger staffs. All psychiatric and specialty hospitals are located in Maricopa and Pima counties.

FIGURE 2: HOSPITAL
EMPLOYMENT BY AREA
MAY 1980

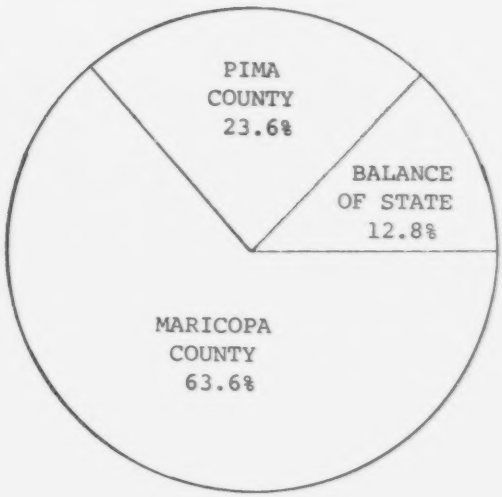
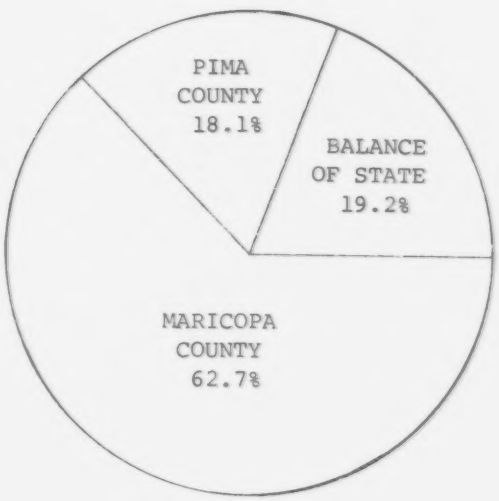


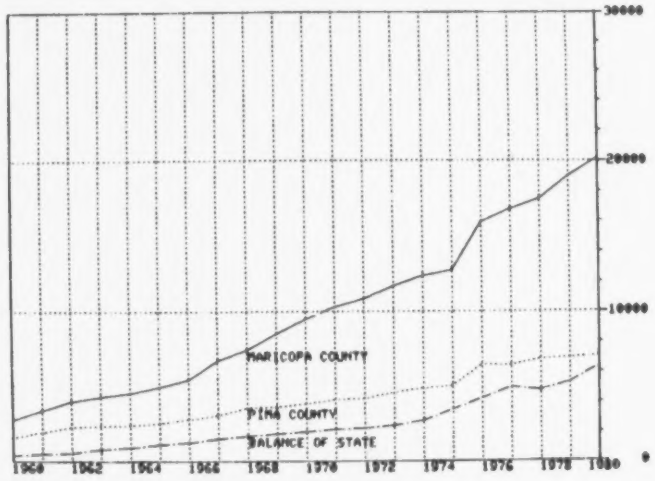
FIGURE 3: TOTAL ARIZONA
EMPLOYMENT BY AREA
MAY 1980



INDUSTRY TRENDS

Hospital employment has shown consistent growth in Arizona over the past two decades and more dramatic increases since 1975. Although the Balance of State (nonmetropolitan counties) has shown the greatest percentage growth (80 percent) in the last five years, most new jobs materialized in Maricopa County.

FIGURE 4: HOSPITAL EMPLOYMENT
1960-1980



SOURCE: DES., LABOR MARKET INFORMATION SEPT 1981

Employment growth in Arizona's hospitals will maintain this upward trend with population growth - particularly among the elderly - and expansion of coverage under prepayment programs that make it easier for persons to pay for hospital and medical care. Medical and technical advances have increased the level and scope of services available and often require additional manpower.

Since 1972, ten hospitals have opened in Arizona - seven of them in the two major metropolitan counties. This same time period witnessed the closure of seven hospitals, including two each in Maricopa and Pima counties.

Employment in the hospital industry is expected to increase nearly 16 percent between 1980 and 1984. All counties are expected to see growth in terms of numbers of hospital workers, but Maricopa County, with 64 percent of Arizona's hospital employment, can expect the most job opportunities. Mike Quinn, Executive Director for Personnel Management Services of Samaritan Health Services, feels that"the hospital and health care industry outlook for Arizona is as bright and promising as the growth potential for the State in the coming decade." The rapid growth of recent decades, however, will not likely be matched in coming years. To meet the needs of a burgeoning population in the 1950's and 60's, numerous new hospitals opened - particularly in Maricopa County.

The emergence of independent laboratories and specialized medical services may have far reaching impact on the health delivery system in the future and could, to some degree, suppress employment growth in the hospital industry. Expanding services in this so-called medical industrial complex encompass for-profit health maintenance organizations, mobile computerized X-ray scanners, dental clinics and centers for long-term kidney dialysis.

Of debatable impact on hospital expansion will be possible federal deregulation of the industry, which appears to be forthcoming. With complete deregulation, certificate-of-need hearings by regional health systems agencies would no longer be required by the federal government to evaluate the number of new beds allowed into the system.

Although primary emphasis is placed on the care of bed patients, the frontier for the hospital industry in recent years has been extended from the sick person in the hospital bed to the sick or potentially sick person in his normal living situation. In addition to outpatient clinics, for example, hospitals have been assuming more responsibility for programs of preventive medicine. They serve as the medium in many communities through which physicians and nurses, along with voluntary and official health agencies, pool their efforts for improvement of the public health.

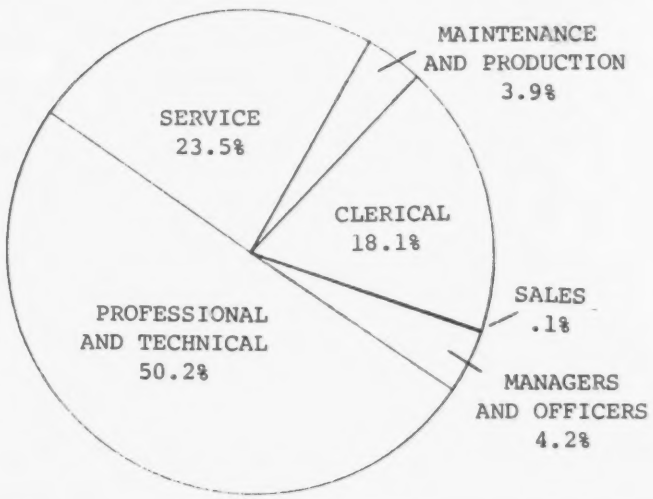
OCCUPATIONAL INFORMATION

Hospital employees are engaged in a broad range of medical and administrative activities requiring a variety of occupational skills. In addition to the medical personnel that we traditionally associate with this industry, hospitals also employ accountants and auditors, engineers, professional librarians and other seemingly unrelated occupations. In some respects, the hospital resembles and incorporates activities usually found in commercial enterprises. In addition to the business, administrative, and service departments commonly found in commercial firms, the hospital often includes a power plant, dietary service, and maintenance staff.

Furthermore, the hospital brings together various types of personnel and facilities for specific lifesaving efforts and related public health, educational, and research activities. Although there is no typical hospital, each participates, to some degree, in all of the related activities. Hospital personnel must work, therefore, in an atmosphere of coordinated effort which reflects the breadth of hospital functions.

Although the hospital environment encompasses personnel with a variety of occupational skills, the bulk of hospital employees are in health related occupations which are of a professional or technical nature. Professional workers represent the largest occupational class in the industry, followed by service workers and clerical workers.

FIGURE 5: OCCUPATIONS IN HOSPITALS
MAY 1980



Professional workers dominate because of the 8,500 nurses which constitute 72 percent of the category. Nearly half of the service workers are nurse's aides and/or orderlies; while the largest occupation in the clerical category is general office clerk. Figure 6 beginning on page 7 presents the occupations with the greatest employment in each of the fourteen counties.

A comparison of the staffing patterns of rural and urban hospitals indicates that metropolitan hospitals employ a larger percentage of professional occupations. Further examination reveals that while one of every four workers in the metropolitan hospitals is a registered nurse, the ratio is one in five for rural hospitals.

Urban hospitals also employ relatively fewer service workers than their rural counterparts. This is due to the smaller percentage of nurse's aides and orderlies employed in metropolitan hospitals as compared to rural hospitals - 9 percent versus 17 percent, respectively.

Professional, service, and technical occupations will provide the greatest number of job opportunities resulting from industry growth and separations from the labor force. Openings resulting from turnovers, however, will provide many more opportunities - especially in certain service and clerical occupations.

Professional nurses and nurse's aides and orderlies will be in greatest demand followed by licensed practical nurses. Robert Grams, Vice President of the Arizona Hospital Association, advises that "there are unlimited opportunities for young people desirous of careers as registered nurses and physical therapists; in fact, there is no end to the demand for R.N.'s." Figure 6 lists, by county, those occupations most frequently reported and with the greatest number of projected openings. For comparison, the most frequently reported occupations for the State rank as follows:

	Estimated 1980 Employment	Percent of State Total Employment in Hospitals
Nurses, Professional	8,540	24.2
Nurse's Aides and/or Orderlies	3,655	10.3
Licensed Practical Nurses	2,082	5.9
Managers and Officers	1,474	4.2
Maids	1,326	3.8
General Clerks, Office	973	2.8

For most occupations, demand is, to a great extent, dictated by the occupation's employment level. Those with large employment levels have greater replacement requirements, and generally are impacted more by the growth or decline of their industry. In contrast are occupations that transpire because of technological advances and operational improvements. Advances in medical science and technology contributed greatly to the emergence of occupations such as electrocardiograph and electroencephalograph technicians, who operate equipment that monitors certain heart and brain activities. Due to changes in medical technology in all facets of health care, Mike Quinn of Samaritan Health Services foresees "definite growth in certain emerging careers, viz., bio-medical engineering, bio-feedback, preventative health care occupations and rehabilitative occupations, to name a few."

The quest for ever increaing efficiency often affects roles and responsibilities of hospital personnel and, in some cases, gives rise to new occupations. Some registered nurses, for example, now become nurse practitioners and perform services, such as physical examinations, that have traditionally been handled by physicians.

Although they may not account for a great number of job openings, emerging occupations may offer attractive possibilities to job seekers in that the demand is often greater than the limited supply of qualified applicants.

FIGURE 6: LARGEST AND HIGHEST DEMAND OCCUPATIONS IN THE HOSPITAL INDUSTRY

MAY 1980

LARGEST OCCUPATIONS	ESTIMATED EMPLOYMENT	PCT. OF COUNTY TOTAL	HIGHEST DEMAND OCCUPATIONS 1980-1984	OPENINGS 1980-1984
APACHE				
Nurses, Professional	28	15.0	Nurses, Professional	13
Nurse's Aides &/or Orderlies	25	13.0	Nurse's Aides &/or Orderlies	10
File Clerks	18	9.6	File Clerks	9
Maids	12	6.4	Maids	6
COCHISE				
Nurses, Professional	111	19.5	Nurses, Professional	41
Nurse's Aides &/or Orderlies	86	15.1	Nurse's Aides &/or Orderlies	32
Licensed Practical Nurses	34	6.0	Licensed Practical Nurses	13
Managers & Officers	23	4.0	Maids	11
Maids	23	4.0	Kitchen Helpers	6
COCONINO				
Nurses, Professional	146	31.6	Nurses, Professional	54
Nurse's Aides &/or Orderlies	65	14.1	Nurse's Aides &/or Orderlies	26
Managers & Officers	58	12.6	Managers & Officers	16
Maids	27	5.8	Maids	12
Kitchen Helpers	13	2.8	Switchboard Operators	7
GILA				
Nurse's Aides &/or Orderlies	110	22.4	Nurse's Aides &/or Orderlies	44
Nurses, Professional	88	17.9	Nurses, Professional	33
Licensed Practical Nurses	47	9.6	Licensed Practical Nurses	19
Maids	38	7.7	Maids	16
Kitchen Helpers	22	4.5	Kitchen Helpers	7

FIGURE 6: LARGEST AND HIGHEST DEMAND OCCUPATIONS IN THE HOSPITAL INDUSTRY (CONT'D.)

LARGEST OCCUPATIONS (MAY 1980)	ESTIMATED EMPLOYMENT	PCT. OF COUNTY TOTAL	HIGHEST DEMAND OCCUPATIONS 1980-1984	OPENINGS 1980-1984
GRAHAM				
Nurses, Professional	28	25.9	Nurses, Professional	13
Nurse's Aides &/or Orderlies	23	21.3	Nurse's Aides, Orderlies	8
Maids	7	6.5		
MARICOPA				
Nurses, Professional	5,614	25.0	Nurses, Professional	2,300
Nurse's Aides &/or Orderlies	2,069	9.2	Nurse's Aides &/or Orderlies	864
Licensed Practical Nurses	1,336	5.9	Licensed Practical Nurses	600
Managers & Officers	933	4.2	Maids	303
Maids	661	2.9	Managers & Officers	266
MOHAVE				
Nurses, Professional	83	16.0	Nurses, Professional	33
Nurse's Aides &/or Orderlies	69	13.3	Nurse's Aides &/or Orderlies	26
Licensed Practical Nurses	44	8.5	Licensed Practical Nurses	19
Kitchen Helpers	37	7.1	Kitchen Helpers	13
Switchboard Opers./Recepts.	20	3.9	Switchboard Opers./Recepts.	9
NAVAJO				
Nurses, Professional	53	22.9	Nurses, Professional	21
Nurse's Aides &/or Orderlies	37	16.0	Nurse's Aides &/or Orderlies	14
Maids	11	4.8	Maids	5
Cooks, Institution	11	4.8	Licensed Practical Nurses	5
PIMA				
Nurses, Professional	2,013	24.1	Nurses, Professional	776
Nurse's Aides &/or Orderlies	818	9.8	Nurse's Aides &/or Orderlies	321
Maids	427	5.1	Maids	182
Licensed Practical Nurses	422	5.1	Licensed Practical Nurses	180
Managers & Officers	385	4.6	General Clerks, Office	105

FIGURE 6: LARGEST AND HIGHEST DEMAND
OCCUPATIONS IN THE HOSPITAL INDUSTRY (CONT'D.)

	MAY 1980			
LARGEST OCCUPATIONS	ESTIMATED EMPLOYMENT	PCT. OF COUNTY TOTAL	HIGHEST DEMAND OCCUPATIONS 1980-1984	OPENINGS 1980-1984
PINAL				
Nurse's Aides &/or Orderlies	87	20.7	Nurse's Aides &/or Orderlies	33
Nurses, Professional	66	15.7	Nurses, Professional	26
Licensed Practical Nurses	42	10.0	Licensed Practical Nurses	19
Maids	26	6.2	Maids	12
Kitchen Helpers	18	4.3	Kitchen Helpers	7
SANTA CRUZ				
Nurse's Aides &/or Orderlies	40	32.3	Nurse's Aides &/or Orderlies	16
Nurses, Professional	19	15.3	Nurses, Professional	8
Kitchen Helpers	10	8.1	Kitchen Helpers	6
YAVAPAI				
Nurses, Professional	140	23.2	Nurses, Professional	54
Nurse's Aides &/or Orderlies	91	15.1	Nurse's Aides &/or Orderlies	35
Licensed Practical Nurses	37	6.1	Licensed Practical Nurses	15
Maids	35	5.8	Maids	13
Managers & Officers	26	4.3	Managers & Officers	8
YUMA				
Nurses, Professional	151	19.0	Nurses, Professional	58
Nurse's Aides &/or Orderlies	135	17.0	Nurse's Aides &/or Orderlies	53
Licensed Practical Nurses	95	12.0	Licensed Practical Nurses	41
General Clerks, Office	57	7.2	General Clerks, Office	21
Maids	41	5.2	Maids	18

OCCUPATIONAL STRUCTURE

The following fourteen tables provide employment estimates and projected employment and job openings for the counties and the State.

When using the data, please note the following:

1) The data reflects full and part-time wage and salary employment only and does not include self-employed or unpaid family workers.

2) Total job openings represent the number of openings due to growth of the industry and separations from the labor force. They do not account for labor turnover, i.e., openings created when a worker changes jobs, leaving the job to be filled by someone else. These vacancies are generally the largest source of job openings.

3) The projection technique does not possess the degree of accuracy that may be implied by small employment changes and demand figures.

4) Employment in federally administered hospitals is not included.

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

STATEWIDE

	Estimated 1980 Employment	Percent of Total 1980 Employment	Projected 1984 Employment	Percent of Total 1984 Employment	Total Job Openings 1980-1984
TOTAL MANAGERS & OFFICERS	1,474	4.2	1,698	4.1	406
TOTAL PROFESSIONAL WORKERS	11,867	33.6	13,769	33.7	4,460
Civil Engineers	65	0.2	75		18
Electrical & Electronic Engineers	12	0.0	14		2
Industrial Engineers	9	0.0	10		1
Mechanical Engineers	5	0.0	6		1
All Other Engineers	1	0.0	1		0
Mathematicians	3	0.0	3		0
Statisticians	31	0.1	36		9
All Other Mathematical Scientists	2	0.0	2		0
Chemists	2	0.0	2		0
Physicists	3	0.0	3		0
Biological Scientists	8	0.0	9		1
Medical Scientists	13	0.0	15		2
Psychologists	61	0.2	71		14
Sociologists	30	0.1	35		9
All Other Social Scientists	5	0.0	6		1
Systems Analysts, EDP	41	0.1	48		7
Purchasing Agents &/or Buyers	60	0.2	70		18
Accountants & Auditors	96	0.3	111		29
Caseworkers	282	0.8	327		101
Chiropractors	2	0.0	2		0
Clergy	34	0.1	39		9
Dentists	21	0.0	24		3
Dietitians &/or Nutritionists	125	0.4	145		50
Lawyers	6	0.0	7		1
Librarians, Professional	58	0.2	67		24
Nurses, Professional	8,540	24.2	9,913		3,420
Occupational Therapists	66	0.2	77		23
Personnel & Labor Relations Specialists	89	0.3	103		26
Pharmacists	310	0.9	360		108
Physical Therapists	191	0.5	222		65
Physicians &/or Surgeons	789	2.2	915		224
Podiatrists	18	0.0	21		7
All Other Therapists	28	0.1	32		8
Manual-Arts, Music, &/or Recreational Therapists	27	0.1	31		8
Speech Pathologists &/or Audiologists	33	0.1	38		9
Audiometrists	2	0.0	2		0
Respiratory Therapists	519	1.5	602		175
All Other Professional Workers	280	0.8	325		87
TOTAL TECHNICAL WORKERS	5,881	16.6	6,819	16.7	2,514
Computer Programmers	22	0.0	26		4
Drafters	2	0.0	2		0
Electrical & Electronic Technicians	34	0.1	39		5
All Other Engineering Technicians	19	0.0	22		3
Biological Science Technicians	36	0.1	42		10
All Other Science Technicians	128	0.4	148		32
Dental Assistants	41	0.1	48		21
Licensed Practical Nurses	2,082	5.9	2,414		913
Physician's Assistants	12	0.0	14		6
Orthopists	2	0.0	2		0
Surgical Technicians	306	0.9	355		99
Radiologic Technicians	294	0.8	341		105
Pharmacy Helpers	245	0.7	284		101
Medical-Records Librarians	109	0.3	126		52
Dental Hygienists	4	0.0	5		1
Medical Laboratory Technologists	682	1.9	791		257
Biochemistry Technologists	46	0.1	53		15
Microbiology Technologists	70	0.2	81		27

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

STATEWIDE (Continued)

	Estimated 1980 Employment	Percent of Total 1980 Employment	Projected 1984 Employment	Percent of Total 1984 Employment	Total Job Openings 1980-1984
Cytotechnologists	15	0.0	17		6
Histologic Technologists	60	0.2	70		23
Prosthetists-Orthotists	1	0.0	1		0
Medical Laboratory Technicians	209	0.6	242		85
Electrocardiograph Technicians	171	0.5	198		55
Electroencephalograph Technicians	44	0.1	51		15
Dietetic Technicians	94	0.3	109		40
Blood Bank Technology Specialists	50	0.1	58		20
Physical Therapy Assistants	192	0.5	223		79
Radiologic &/or Nuclear Medical Technologists	357	1.0	414		147
All Other Medical & Dental Technicians	506	1.4	587		381
All Other Technicians	48	0.1	56		12
TOTAL SERVICE WORKERS	8,299	23.5	9,648	23.6	3,220
Maids	1,326	3.8	1,542		590
All Other Janitors, Porters, & Cleaners	272	0.8	316		85
Guards & Doorkeepers	226	0.6	263		45
Bakers, Bread &/or Pastry	16	0.0	19		7
Dining Room Attendants	93	0.3	108		19
Kitchen Helpers	597	1.7	694		219
Waiters/Waitresses	7	0.0	8		1
Counter Attendants, Cafeteria	106	0.3	123		43
Cooks, Short Order &/or Specialty Fast Foods	52	0.2	60		16
Pantry, Sandwich &/or Coffee Makers	46	0.1	53		16
Cooks, Institution	259	0.7	301		86
All Other Food Service Workers	500	1.4	581		183
Supervisors, Nonworking -- Service Only	194	0.6	226		48
Housekeepers	160	0.5	186		63
Nurse's Aides &/or Orderlies	3,655	10.3	4,250		1,480
Psychiatric Aides	276	0.8	321		112
Orthopedic-Cast Specialists	18	0.0	21		7
Child-Care Workers	26	0.1	30		12
Social Service Aides	49	0.1	57		18
Medical Assistants	49	0.1	57		20
Occupational Therapy Assistants	113	0.3	131		47
All Other Service Workers	259	0.7	301		102
TOTAL MAINTENANCE & PRODUCTION WORKERS	1,382	3.9	1,581	3.9	370
Mechanics, Automotive	6	0.0	7		1
Electromedical Equipment Repairers	43	0.1	49		10
Mechanics, Maintenance	45	0.1	51		10
All Other Mechanics & Repairers	21	0.0	24		3
Washers &/or Starchers, Machine	67	0.2	77		27
Laundry Pressers, Machine	230	0.7	263		91
Truck Drivers	6	0.0	7		1
Carpenters	49	0.1	56		11
Delivery &/or Route Workers	19	0.0	22		3
Electricians	49	0.1	56		11
Supervisors, Nonworking	78	0.2	89		17
Inspectors	1	0.0	1		0
Maintenance Repairers, General Utility	260	0.7	298		56
Helpers, Trades	39	0.1	45		10
Order Fillers	3	0.0	3		0
Painters, Maintenance	40	0.1	46		10
Plumbers &/or Pipefitters	26	0.1	30		6
Custom Sewers	5	0.0	6		1
Stationary Boiler Firers	24	0.1	27		7
Stationary Engineers	110	0.3	126		28
Opticians, Dispensing &/or Optical Mechanics	1	0.0	1		0
Gardeners & Groundskeepers	61	0.2	70		18
Ambulance Drivers &/or Attendants	38	0.1	43		9
All Other Skilled Craft Workers	8	0.0	9		1

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

STATEWIDE (Continued)

	Estimated 1980 Employment	Percent of Total 1980 Employment	Projected 1984 Employment	Percent of Total 1984 Employment	Total Job Openings 1980-1984
All Other Operatives & Semiskilled Workers	126	0.4	144		31
All Other Laborers & Unskilled Workers	27	0.1	31		8
TOTAL CLERICAL WORKERS	6,412	18.1	7,323	17.9	2,495
Bookkeeping &/or Billing Machine Operators	30	0.1	34		12
Computer Operators	96	0.3	110		26
Keypunch Operators	144	0.4	164		57
Peripheral EDP Equipment Operators	14	0.0	16		6
All Other Office Machine Operators	23	0.0	26		11
Stenographers	348	1.0	397		137
Accounting Clerks	189	0.5	216		70
Bookkeepers, Hand	56	0.2	64		20
Cashiers	137	0.4	156		51
File Clerks	339	1.0	387		154
General Clerks, Office	973	2.8	1,112		375
Library Assistants	19	0.0	22		7
Insurance Clerks, Medical	457	1.3	522		175
Order Clerks	67	0.2	77		26
Payroll &/or Timekeeping Clerks	67	0.2	77		24
Personnel Clerks	77	0.2	88		35
Procurement Clerks	44	0.1	50		10
Receptionists	299	0.8	341		135
Secretaries	770	2.2	879		320
Statistical Clerks	121	0.3	138		46
Switchboard Operators	250	0.7	286		115
Switchboard Operators/Receptionists	89	0.3	102		41
Typists	316	0.9	361		140
Clerical Supervisors	236	0.7	270		63
All Other Office Clerical Workers	885	2.5	1,011		339
Production Clerks &/or Coordinators	29	0.1	33		8
Shipping Packers	43	0.1	49		10
Shipping &/or Receiving Clerks	65	0.2	74		13
Stock Clerks, Stockroom	130	0.4	148		32
Dispatchers, Ambulance	16	0.0	18		5
All Other Plant Clerical Workers	83	0.2	95		32
TOTAL SALES WORKERS	14	0.0	16	0.1	2
Sales Representatives	1	0.0	1		0
Sales Clerks	13	0.0	15		2
TOTAL ALL OCCUPATIONS	35,329	100.0	40,854	100.0	13,467

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

APACHE COUNTY

	Estimated 1980 Employment	Projected 1984 Employment	Job Openings Due to Growth 1980-1984	Job Openings Due to Separations 1980-1984	Total Job Openings 1980-1984
TOTAL MANAGERS & OFFICERS	3	3	0	0	0
TOTAL PROFESSIONAL WORKERS	54	62	8	8	16
Purchasing Agents &/or Buyers	2	2	0	0	0
Accountants & Auditors	2	2	0	0	0
Caseworkers	3	4	1	0	1
Dentists	2	2	0	0	0
Dietitians &/or Nutritionists	1	1	0	0	0
Lawyers	2	2	0	0	0
Nurses, Professional	28	33	5	8	13
Personnel & Labor Relations Specialists	2	2	0	0	0
Pharmacists	2	2	0	0	0
Physicians &/or Surgeons	6	7	1	0	1
Respiratory Therapists	1	1	0	0	0
All Other Professional Workers	3	4	1	0	1
TOTAL TECHNICAL WORKERS	21	24	3	0	3
Electrical & Electronic Technicians	1	1	0	0	0
Dental Assistants	2	2	0	0	0
Licensed Practical Nurses	3	4	1	0	1
Radiologic Technicians	3	4	1	0	1
Pharmacy Helpers	2	2	0	0	0
Medical-Records Librarians	1	1	0	0	0
Medical Laboratory Technologists	7	8	1	0	1
Biochemistry Technologists	1	1	0	0	0
All Other Technicians	1	1	0	0	0
TOTAL SERVICE WORKERS	51	58	7	10	17
Maids	12	14	2	4	6
Dining Room Attendants	1	1	0	0	0
Cooks, Institution	8	9	1	0	1
Supervisors, Nonworking -- Service Only	1	1	0	0	0
Housekeepers	3	3	0	0	0
Nurse's Aides &/or Orderlies	25	29	4	6	10
Social Service Aides	1	1	0	0	0
TOTAL MAINTENANCE & PRODUCTION WORKERS	11	12	1	0	1
Mechanics, Maintenance	1	1	0	0	0
Delivery &/or Route Workers	1	1	0	0	0
Electricians	1	1	0	0	0
Helpers, Trades	1	1	0	0	0
Plumbers &/or Pipefitters	1	1	0	0	0
Stationary Engineers	1	1	0	0	0
Ambulance Drivers &/or Attendants	5	6	1	0	1
TOTAL CLERICAL WORKERS	47	53	6	6	12
Stenographers	1	1	0	0	0
Cashiers	1	1	0	0	0
File Clerks	18	21	3	6	9
General Clerks, Office	4	5	1	0	1
Insurance Clerks, Medical	1	1	0	0	0
Payroll &/or Timekeeping Clerks	1	1	0	0	0
Personnel Clerks	2	2	0	0	0
Receptionists	1	1	0	0	0
Secretaries	4	5	1	0	1
Switchboard Operators/Receptionists	2	2	0	0	0
Typists	4	5	1	0	1
Clerical Supervisors	2	2	0	0	0
All Other Office Clerical Workers	2	2	0	0	0
Stock Clerks, Stockroom	2	2	0	0	0
Dispatchers, Ambulance	2	2	0	0	0
TOTAL ALL OCCUPATIONS	187	212	25	24	49

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

COCHISE COUNTY

	Estimated 1980 Employment	Projected 1984 Employment	Job Openings Due to Growth 1980-1984	Job Openings Due to Separations 1980-1984	Total Job Openings 1980-1984
TOTAL MANAGERS & OFFICERS	23	26	3	4	7
TOTAL PROFESSIONAL WORKERS	159	181	22	26	48
Mechanical Engineers	1	1	0	0	0
Mathematicians	3	3	0	0	0
Statisticians	1	1	0	0	0
Purchasing Agents &/or Buyers	4	5	1	0	1
Accountants & Auditors	4	5	1	0	1
Caseworkers	2	2	0	0	0
Dietitians &/or Nutritionists	2	2	0	0	0
Librarians, Professional	4	5	1	0	1
Nurses, Professional	111	126	15	26	41
Occupational Therapists	2	2	0	0	0
Personnel & Labor Relations Specialists	2	2	0	0	0
Pharmacists	6	7	1	0	1
Physical Therapists	4	5	1	0	1
Respiratory Therapists	6	7	1	0	1
All Other Professional Workers	7	8	1	0	1
TOTAL TECHNICAL WORKERS	90	102	12	16	28
Computer Programmers	2	2	0	0	0
All Other Engineering Technicians	1	1	0	0	0
Licensed Practical Nurses	34	39	5	8	13
Surgical Technicians	4	5	1	0	1
Radiologic Technicians	8	9	1	0	1
Pharmacy Helpers	4	5	1	0	1
Medical-Records Librarians	9	10	1	4	5
Medical Laboratory Technologists	4	5	1	0	1
Biochemistry Technologists	2	2	0	0	0
Microbiology Technologists	1	1	0	0	0
Medical Laboratory Technicians	10	11	1	4	5
Dietetic Technicians	2	2	0	0	0
Physical Therapy Assistants	5	6	1	0	1
Radiologic &/or Nuclear Medical Technologists	2	2	0	0	0
All Other Technicians	2	2	0	0	0
TOTAL SERVICE WORKERS	181	207	26	39	65
Maids	23	26	3	8	11
All Other Janitors, Porters, & Cleaners	13	15	2	3	5
Guards & Doorkeepers	3	3	0	0	0
Dining Room Attendants	4	5	1	0	1
Kitchen Helpers	13	15	2	4	6
Waiters/Waitresses	2	2	0	0	0
Counter Attendants, Cafeteria	4	5	1	0	1
Cooks, Institution	14	16	2	4	6
All Other Food Service Workers	6	7	1	0	1
Supervisors, Nonworking -- Service Only	6	7	1	0	1
Housekeepers	5	6	1	0	1
Nurse's Aides &/or Orderlies	86	98	12	20	32
Social Service Aides	1	1	0	0	0
Occupational Therapy Assistants	1	1	0	0	0
TOTAL MAINTENANCE & PRODUCTION WORKERS	25	28	3	0	3
Mechanics, Automotive	1	1	0	0	0
Electromedical Equipment Repairers	1	1	0	0	0
Mechanics, Maintenance	2	2	0	0	0
Carpenters	1	1	0	0	0
Supervisors, Nonworking	3	3	0	0	0
Maintenance Repairers, General Utility	9	11	2	0	2
Helpers, Trades	2	2	0	0	0
Painters, Maintenance	1	1	0	0	0

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

COCHISE COUNTY (Continued)

	Estimated 1980 Employment	Projected 1984 Employment	Job Openings Due to Growth 1980-1984	Job Openings Due to Separations 1980-1984	Total Job Openings 1980-1984
Stationary Engineers	2	2	0	0	0
Gardeners & Groundskeepers	3	4	1	0	1
TOTAL CLERICAL WORKERS	90	101	11	4	15
Computer Operators	4	4	0	0	0
Keypunch Operators	3	3	0	0	0
Accounting Clerks	2	2	0	0	0
Bookkeepers, Hand	2	2	0	0	0
Cashiers	6	7	1	0	1
File Clerks	4	4	0	0	0
General Clerks, Office	5	6	1	0	1
Library Assistants	1	1	0	0	0
Insurance Clerks, Medical	9	11	2	0	2
Order Clerks	2	2	0	0	0
Payroll &/or Timekeeping Clerks	4	4	0	0	0
Personnel Clerks	2	2	0	0	0
Procurement Clerks	5	6	1	0	1
Receptionists	7	8	1	0	1
Secretaries	5	6	1	0	1
Statistical Clerks	1	1	0	0	0
Switchboard Operators	5	6	1	0	1
Switchboard Operators/Receptionists	9	11	2	4	6
Clerical Supervisors	4	4	0	0	0
All Other Office Clerical Workers	2	2	0	0	0
Shipping &/or Receiving Clerks	1	1	0	0	0
Stock Clerks, Stockroom	1	1	0	0	0
All Other Plant Clerical Workers	6	7	1	0	1
TOTAL ALL OCCUPATIONS	568	645	77	89	166

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

COCONINO COUNTY

	Estimated 1980 Employment	Projected 1984 Employment	Job Openings Due to Growth 1980-1984	Job Openings Due to Separations 1980-1984	Total Job Openings 1980-1984
TOTAL MANAGERS & OFFICERS	58	66	8	8	16
TOTAL PROFESSIONAL WORKERS	156	177	21	34	55
Purchasing Agents &/or Buyers	1	1	0	0	0
Accountants & Auditors	1	1	0	0	0
Caseworkers	1	1	0	0	0
Dietitians &/or Nutritionists	1	1	0	0	0
Nurses, Professional	146	166	20	34	54
Pharmacists	4	5	1	0	1
Physical Therapists	1	1	0	0	0
Physicians &/or Surgeons	1	1	0	0	0
TOTAL TECHNICAL WORKERS	36	41	5	4	9
Licensed Practical Nurses	5	6	1	0	1
Surgical Technicians	4	5	1	0	1
Radiologic Technicians	2	2	0	0	0
Medical-Records Librarians	2	2	0	0	0
Medical Laboratory Technologists	12	14	2	4	6
Medical Laboratory Technicians	1	1	0	0	0
Radiologic &/or Nuclear Medical Technologists	10	11	1	0	1
TOTAL SERVICE WORKERS	139	159	20	29	49
Maids	27	31	4	8	12
All Other Janitors, Porters, & Cleaners	11	13	2	1	3
Guards & Doorkeepers	7	8	1	0	1
Kitchen Helpers	13	14	1	4	5
Cooks, Institution	9	10	1	0	1
Supervisors, Nonworking -- Service Only	3	3	0	0	0
Housekeepers	4	5	1	0	1
Nurse's Aides &/or Orderlies	65	75	10	16	26
TOTAL MAINTENANCE & PRODUCTION WORKERS	13	14	1	0	1
Electromedical Equipment Repairers	1	1	0	0	0
Washers &/or Starchers, Machine	2	2	0	0	0
Supervisors, Nonworking	2	2	0	0	0
Maintenance Repairers, General Utility	6	7	1	0	1
Stationary Engineers	1	1	0	0	0
Gardeners and Groundskeepers	1	1	0	0	0
TOTAL CLERICAL WORKERS	60	68	8	8	16
Bookkeeping &/or Billing Machine Operators	2	2	0	0	0
Keypunch Operators	1	1	0	0	0
Accounting Clerks	1	1	0	0	0
Cashiers	2	2	0	0	0
File Clerks	3	3	0	0	0
General Clerks, Office	11	14	3	4	7
Library Assistants	1	1	0	0	0
Insurance Clerks, Medical	6	7	1	0	1
Payroll &/or Timekeeping Clerks	1	1	0	0	0
Personnel Clerks	2	2	0	0	0
Procurement Clerks	2	2	0	0	0
Receptionists	2	2	0	0	0
Secretaries	5	6	1	0	1
Statistical Clerks	2	2	0	0	0
Switchboard Operators	12	15	3	4	7
Typists	3	3	0	0	0
Clerical Supervisors	1	1	0	0	0
Shipping &/or Receiving Clerks	2	2	0	0	0
Stock Clerks, Stockroom	1	1	0	0	0
TOTAL ALL OCCUPATIONS	462	525	63	83	146

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

GILA COUNTY

	Estimated 1980 Employment	Projected 1984 Employment	Job Openings Due to Growth 1980-1984	Job Openings Due to Separations 1980-1984	Total Job Openings 1980-1984
TOTAL MANAGERS & OFFICERS	4	6	2	0	2
TOTAL PROFESSIONAL WORKERS	113	128	15	20	35
All Other Engineers	1	1	0	0	0
Purchasing Agents &/or Buyers	2	2	0	0	0
Accountants & Auditors	1	1	0	0	0
Caseworkers	3	3	0	0	0
Dietitians &/or Nutritionists	1	1	0	0	0
Librarians, Professional	1	1	0	0	0
Nurses, Professional	88	101	13	20	33
Pharmacists	8	9	1	0	1
Physical Therapists	2	2	0	0	0
Physicians &/or Surgeons	1	1	0	0	0
Respiratory Therapists	5	6	1	0	1
TOTAL TECHNICAL WORKERS	93	105	12	16	28
Computer Programmers	2	2	0	0	0
Licensed Practical Nurses	47	54	7	12	19
Surgical Technicians	2	2	0	0	0
Radiologic Technicians	7	8	1	0	1
Pharmacy Helpers	4	5	1	0	1
Medical-Records Librarians	3	3	0	0	0
Medical Laboratory Technologists	6	7	1	0	1
Medical Laboratory Technicians	2	2	0	0	0
Electrocardiograph Technicians	1	1	0	0	0
Blood Bank Technology Specialists	9	10	1	4	5
Physical Therapy Assistants	5	6	1	0	1
Radiologic &/or Nuclear Medical Technologists	3	3	0	0	0
All Other Medical & Dental Techs.	2	2	0	0	0
TOTAL SERVICE WORKERS	198	226	28	41	69
Maids	38	43	5	11	16
All Other Janitors, Porters, & Cleaners	3	3	0	0	0
Guards & Doorkeepers	2	2	0	0	0
Kitchen Helpers	22	25	3	4	7
Cooks, Institution	10	11	1	0	1
All Other Food Service Workers	7	8	1	0	1
Supervisors, Nonworking -- Service Only	2	2	0	0	0
Housekeepers	3	3	0	0	0
Nurse's Aides &/or Orderlies	110	128	18	26	44
Social Service Aides	1	1	0	0	0
TOTAL MAINTENANCE & PRODUCTION WORKERS	28	32	4	4	8
Laundry Pressers, Machine	12	14	2	4	6
Maintenance Repairers, General Utility	14	16	2	0	2
Gardeners & Groundskeepers	1	1	0	0	0
All Other Skilled Craft Workers	1	1	0	0	0
TOTAL CLERICAL WORKERS	56	62	6	0	6
Bookkeeping &/or Billing Machine Operators	2	2	0	0	0
Computer Operators	5	7	2	0	2
Stenographers	3	3	0	0	0
Bookkeepers, Hand	2	2	0	0	0
Cashiers	1	1	0	0	0
File Clerks	4	4	0	0	0
General Clerks, Office	2	2	0	0	0
Insurance Clerks, Medical	6	8	2	0	2
Payroll &/or Timekeeping Clerks	2	2	0	0	0
Personnel Clerks	1	1	0	0	0
Receptionists	3	3	0	0	0
Secretaries	3	3	0	0	0

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

GILA COUNTY (Continued)

	Estimated 1980 Employment	Projected 1984 Employment	Job Openings Due to Growth 1980-1984	Job Openings Due to Separations 1980-1984	Total Job Openings 1980-1984
Switchboard Operators	4	4	0	0	0
Switchboard Operators/Receptionists	4	4	0	0	0
Typists	2	2	0	0	0
All Other Office Clerical Workers	3	5	2	0	2
Shipping &/or Receiving Clerks	2	2	0	0	0
Stock Clerks, Stockroom	3	3	0	0	0
All Other Plant Clerical Workers	4	4	0	0	0
TOTAL ALL OCCUPATIONS	492	559	67	81	148

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

GRAHAM COUNTY

	Estimated 1980 Employment	Projected 1984 Employment	Job Openings Due to Growth 1980-1984	Job Openings Due to Separations 1980-1984	Total Job Openings 1980-1984
TOTAL MANAGERS & OFFICERS	1	1	0	0	0
TOTAL PROFESSIONAL WORKERS	31	36	5	8	13
Purchasing Agents &/or Buyers	1	1	0	0	0
Dietitians &/or Nutritionists	1	1	0	0	0
Nurses, Professional	28	33	5	8	13
Pharmacists	1	1	0	0	0
TOTAL TECHNICAL WORKERS	19	22	3	0	3
Licensed Practical Nurses	4	5	1	0	1
Surgical Technicians	2	2	0	0	0
Radiologic Technicians	2	2	0	0	0
Medical-Records Librarians	1	1	0	0	0
Medical Laboratory Technicians	5	6	1	0	1
Radiologic &/or Nuclear Medical Technologists	1	1	0	0	0
All Other Medical & Dental Techs.	4	5	1	0	1
TOTAL SERVICE WORKERS	43	49	6	4	10
Maids	7	8	1	0	1
Kitchen Helpers	5	6	1	0	1
Counter Attendants, Cafeteria	2	2	0	0	0
Cooks, Institution	2	2	0	0	0
Housekeepers	1	1	0	0	0
Nurse's Aides &/or Orderlies	23	27	4	4	8
All Other Service Workers	3	3	0	0	0
TOTAL MAINTENANCE & PRODUCTION WORKERS	3	3	0	0	0
Washers &/or Starchers, Machine	2	2	0	0	0
Maintenance Repairers, General Utility	1	1	0	0	0
TOTAL CLERICAL WORKERS	11	12	1	0	1
Computer Operators	2	3	1	0	1
Stenographers	2	2	0	0	0
Bookkeepers, Hand	1	1	0	0	0
File Clerks	1	1	0	0	0
Insurance Clerks, Medical	1	1	0	0	0
Payroll &/or Timekeeping Clerks	1	1	0	0	0
Secretaries	2	2	0	0	0
Switchboard Operators/Receptionists	1	1	0	0	0
TOTAL ALL OCCUPATIONS	108	123	15	12	27

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

MARICOPA COUNTY

	Estimated 1980 Employment	Projected 1984 Employment	Job Openings Due to Growth 1980-1984	Job Openings Due to Separations 1980-1984	Total Job Openings 1980-1984
TOTAL MANAGERS & OFFICERS	933	1,083	150	116	266
TOTAL PROFESSIONAL WORKERS	7,917	9,252	1,335	1,708	3,043
Civil Engineers	65	76	11	8	19
Electrical & Electronic Engineers	6	7	1	0	1
Industrial Engineers	8	9	1	0	1
Mechanical Engineers	1	1	0	0	0
Statisticians	28	33	5	4	9
All Other Mathematical Scientists	2	2	0	0	0
Chemists	2	2	0	0	0
Physicists	3	4	1	0	1
Biological Scientists	5	6	1	0	1
Medical Scientists	4	5	1	0	1
Psychologists	53	62	9	4	13
Sociologists	30	35	5	4	9
All Other Social Scientists	4	5	1	0	1
Systems Analysts, EDP	38	44	6	0	6
Purchasing Agents &/or Buyers	30	35	5	4	9
Accountants & Auditors	69	81	12	10	22
Caseworkers	208	243	35	42	77
Chiropractors	2	2	0	0	0
Clergy	25	29	4	4	8
Dentists	19	22	3	0	3
Dietitians &/or Nutritionists	76	89	13	19	32
Lawyers	4	5	1	0	1
Librarians, Professional	29	34	5	8	13
Nurses, Professional	5,614	6,561	947	1,353	2,300
Occupational Therapists	51	60	9	8	17
Personnel & Labor Relations Specialists	66	77	11	8	19
Pharmacists	175	204	29	33	62
Physical Therapists	131	153	22	23	45
Physicians &/or Surgeons	537	628	91	67	158
Podiatrists	18	21	3	4	7
All Other Therapists	19	22	3	4	7
Manual-Arts, Music, &/or Recreational Therapists	15	18	3	4	7
Speech Pathologists &/or Audiologists	23	27	4	4	8
Audiometrists	1	1	0	0	0
Respiratory Therapists	311	363	52	56	108
All Other Professional Workers	245	286	41	37	78
TOTAL TECHNICAL WORKERS	3,800	4,441	641	1,053	1,694
Computer Programmers	13	15	2	0	2
Drafters	2	2	0	0	0
Electrical & Electronic Technicians	24	28	4	0	4
All Other Engineering Technicians	11	13	2	0	2
Biological Science Technicians	14	16	2	0	2
All Other Science Technicians	128	150	22	12	34
Dental Assistants	34	40	6	12	18
Licensed Practical Nurses	1,336	1,562	226	374	600
Physician's Assistants	11	13	2	4	6
Orthopists	1	1	0	0	0
Surgical Technicians	174	203	29	29	58
Radiologic Technicians	152	178	26	30	56
Pharmacy Helpers	133	155	22	34	56
Medical-Records Librarians	69	81	12	22	34
Dental Hygienists	4	5	1	0	1
Medical Laboratory Technologists	399	466	67	86	153
Biochemistry Technologists	26	30	4	4	8
Microbiology Technologists	38	44	6	8	14
Cytotechnologists	7	8	1	0	1

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

MARICOPA COUNTY (Continued)

	Estimated 1980 Employment	Projected 1984 Employment	Job Openings Due to Growth 1980-1984	Job Openings Due to Separations 1980-1984	Total Job Openings 1980-1984
Histologic Technologists	39	46	7	8	15
Medical Laboratory Technicians	159	186	27	40	67
Electrocardiograph Technicians	126	147	21	20	41
Electroencephalograph Technicians	25	29	4	4	8
Dietetic Technicians	73	85	12	43	55
Blood Bank Technology Specialists	25	29	4	7	11
Physical Therapy Assistants	118	140	22	30	52
Radiologic &/or Nuclear Medical Technologists	245	286	41	62	103
All Other Medical & Dental Techs.	370	432	62	220	282
All Other Technicians	44	51	7	4	11
TOTAL SERVICE WORKERS	4,827	5,666	839	1,088	1,927
Maids	661	776	115	188	303
All Other Janitors, Porters, & Cleaners	197	231	34	31	65
Guards & Doorkeepers	165	194	29	8	37
Bakers, Bread &/or Pastry	10	12	2	2	4
Dining Room Attendants	7	8	1	0	1
Kitchen Helpers	333	391	58	69	127
Waiters/Waitresses	5	6	1	0	1
Counter Attendants, Cafeteria	48	56	8	12	20
Cooks, Short Order &/or Specialty Fast Foods	49	58	9	8	17
Pantry, Sandwich &/or Coffee Makers	37	43	6	8	14
Cooks, Institution	120	141	21	20	41
All Other Food Service Workers	355	417	62	74	136
Supervisors, Nonworking -- Service Only	147	173	26	12	38
Housekeepers	103	121	18	24	42
Nurse's Aides &/or Orderlies	2,069	2,427	358	506	864
Psychiatric Aides	211	248	37	52	89
Orthopedic-Cast Specialists	8	9	1	0	1
Child-Care Workers	26	31	5	8	13
Social Service Aides	35	41	6	8	14
Medical Assistants	15	18	3	4	7
Occupational Therapy Assistants	111	130	19	28	47
All Other Service Workers	115	135	20	26	46
TOTAL MAINTENANCE & PRODUCTION WORKERS	871	1,005	134	105	239
Mechanics, Automotive	2	2	0	0	0
Electromedical Equipment Repairers	28	32	4	1	5
Mechanics, Maintenance	27	31	4	0	4
All Other Mechanics and Repairers	21	24	3	0	3
Washers &/or Starchers, Machine	37	43	6	9	15
Laundry Pressers, Machine	186	216	30	47	77
Truck Drivers	4	5	1	0	1
Carpenters	35	40	5	4	9
Delivery &/or Route Workers	15	17	2	0	2
Electricians	36	42	6	4	10
Supervisors, Nonworking	52	60	8	4	12
Inspectors	1	1	0	0	0
Maintenance Repairers, General Utility	173	200	27	12	39
Helpers, Trades	16	18	2	0	2
Order Fillers	1	1	0	0	0
Painters, Maintenance	27	31	4	4	8
Plumbers &/or Pipefitters	17	20	3	0	3
Custom Sewers	4	5	1	0	1
Stationary Boiler Firers	8	9	1	0	1
Stationary Engineers	79	91	12	8	20
Opticians, Dispensing &/or Optical Mechanics	1	1	0	0	0
Gardeners and Groundskeepers	29	33	4	4	8
Ambulance Drivers &/or Attendants	24	28	4	4	8
All Other Skilled Craft Workers	7	8	1	0	1
All Other Operatives & Semiskilled Workers	35	40	5	4	9
All Other Laborers & Unskilled Workers	6	7	1	0	1

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

MARICOPA COUNTY (Continued)

	Estimated 1980 Employment	Projected 1984 Employment	Job Openings Due to Growth 1980-1984	Job Openings Due to Separations 1980-1984	Total Job Openings 1980-1984
TOTAL CLERICAL WORKERS	4,108	4,728	620	1,016	1,636
Bookkeeping &/or Billing Machine Operators	17	20	3	4	7
Computer Operators	59	68	9	8	17
Keypunch Operators	86	99	13	22	35
Peripheral EDP Equipment Operators	10	12	2	4	6
All Other Office Machine Operators	14	16	2	4	6
Stenographers	238	274	36	61	97
Accounting Clerks	135	155	20	31	51
Bookkeepers, Hand	42	48	6	10	16
Cashiers	83	96	13	20	33
File Clerks	192	221	29	60	89
General Clerks, Office	583	671	88	141	229
Library Assistants	6	7	1	0	1
Insurance Clerks, Medical	259	298	39	63	102
Order Clerks	17	20	3	4	7
Payroll &/or Timekeeping Clerks	26	30	4	4	8
Personnel Clerks	41	47	6	13	19
Procurement Clerks	13	15	2	0	2
Receptionists	226	260	34	71	105
Secretaries	583	671	88	160	248
Statistical Clerks	84	97	13	20	33
Switchboard Operators	150	173	23	47	70
Switchboard Operators/Receptionists	32	37	5	9	14
Typists	184	212	28	56	84
Clerical Supervisors	150	173	23	19	42
All Other Office Clerical Workers	673	778	105	164	269
Production Clerks &/or Coordinators	28	32	4	4	8
Shipping Packers	37	43	6	4	10
Shipping &/or Receiving Clerks	32	37	5	4	9
Stock Clerks, Stockroom	78	90	12	8	20
Dispatchers, Ambulance	14	16	2	1	3
All Other Plant Clerical Workers	16	18	2	0	2
TOTAL SALES WORKERS	13	15	2	0	2
Sales Representatives	1	1	0	0	0
Sales Clerks	12	14	2	0	2
TOTAL ALL OCCUPATIONS	22,469	26,190	3,721	5,086	8,807

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

MOHAVE COUNTY

	Estimated 1980 Employment	Projected 1984 Employment	Job Openings Due to Growth 1980-1984	Job Openings Due to Separations 1980-1984	Total Job Openings 1980-1984
TOTAL MANAGERS & OFFICERS	17	19	22	4	6
TOTAL PROFESSIONAL WORKERS	117	133	16	24	40
Purchasing Agents &/or Buyers	3	3	0	0	0
Accountants & Auditors	1	1	0	0	0
Caseworkers	1	1	0	0	0
Dietitians &/or Nutritionists	2	2	0	0	0
Librarians, Professional	1	1	0	0	0
Nurses, Professional	83	96	13	20	33
Personnel & Labor Relations Specialists	2	2	0	0	0
Pharmacists	5	6	1	0	1
Physical Therapists	3	3	0	0	0
Respiratory Therapists	14	16	2	4	6
All Other Professional Workers	2	2	0	0	0
TOTAL TECHNICAL WORKERS	95	108	13	16	29
Biological Science Technicians	2	2	0	0	0
Licensed Practical Nurses	44	51	7	12	19
Surgical Technicians	7	8	1	0	1
Radiologic Technicians	8	9	1	0	1
Pharmacy Helpers	5	6	1	0	1
Medical-Records Librarians	2	2	0	0	0
Medical Laboratory Technologists	13	15	2	4	6
Microbiology Technologists	1	1	0	0	0
Histologic Technologists	1	1	0	0	0
Electrocardiograph Technicians	3	3	0	0	0
Dietetic Technicians	2	2	0	0	0
Physical Therapy Assistants	3	3	0	0	0
Radiologic &/or Nuclear Medical Technologists	4	5	1	0	1
TOTAL SERVICE WORKERS	157	179	22	32	54
Maids	18	21	3	4	7
All Other Janitors, Porters, & Cleaners	2	2	0	0	0
Kitchen Helpers	37	42	5	8	13
Cooks, Institution	10	11	1	0	1
Supervisors, Nonworking -- Service Only	7	8	1	0	1
Housekeepers	14	16	2	4	6
Nurse's Aides &/or Orderlies	69	79	10	16	26
TOTAL MAINTENANCE & PRODUCTION WORKERS	37	42	5	0	5
Electromedical Equipment Repairers	1	1	0	0	0
Washers &/or Starchers, Machine	9	10	1	0	1
Supervisors, Nonworking	1	1	0	0	0
Maintenance Repairers, General Utility	5	6	1	0	1
Painters, Maintenance	1	1	0	0	0
Stationary Boiler Firers	6	7	1	0	1
Stationary Engineers	1	1	0	0	0
Gardeners & Groundskeepers	3	3	0	0	0
Ambulance Drivers &/or Attendants	9	11	2	0	2
All Other Operatives & Semiskilled Workers	1	1	0	0	0
TOTAL CLERICAL WORKERS	95	107	12	15	27
Computer Operators	5	6	1	0	1
Stenographers	2	2	0	0	0
Accounting Clerks	1	1	0	0	0
File Clerks	2	2	0	0	0
General Clerks, Office	14	16	2	4	6
Library Assistants	2	2	0	0	0
Insurance Clerks, Medical	17	19	2	4	6
Order Clerks	4	5	1	0	1
Payroll &/or Timekeeping Clerks	3	3	0	0	0

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

MOHAVE COUNTY (Continued)

	Estimated 1980 Employment	Projected 1984 Employment	Job Openings Due to Growth 1980-1984	Job Openings Due to Separations 1980-1984	Total Job Openings 1980-1994
Procurement Clerks	6	7	1	0	1
Receptionists	4	5	1	0	1
Secretaries	5	6	1	0	1
Statistical Clerks	5	6	1	0	1
Switchboard Operators/Receptionists	20	22	2	7	9
Typists	1	1	0	0	0
Clerical Supervisors	2	2	0	0	0
Stock Clerks, Stockroom	2	2	0	0	0
TOTAL ALL OCCUPATIONS	518	588	70	91	161

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

NAVAJO COUNTY

	Estimated 1980 Employment	Projected 1984 Employment	Job Openings Due to Growth 1980-1984	Job Openings Due to Separations 1980-1984	Total Job Openings 1980-1984
TOTAL MANAGERS & OFFICERS	8	9	1	0	1
TOTAL PROFESSIONAL WORKERS	69	79	10	12	22
Purchasing Agents &/or Buyers	3	3	0	0	0
Accountants & Auditors	1	1	0	0	0
Caseworkers	1	1	0	0	0
Dietitians &/or Nutritionists	4	5	1	0	1
Librarians, Professional	1	1	0	0	0
Nurses, Professional	53	62	9	12	21
Pharmacists	3	3	0	0	0
Respiratory Therapists	3	3	0	0	0
TOTAL TECHNICAL WORKERS	37	42	5	4	9
Licensed Practical Nurses	9	10	1	4	5
Surgical Technicians	6	7	1	0	1
Radiologic Technicians	2	2	0	0	0
Medical-Records Librarians	4	5	1	0	1
Medical Laboratory Technologists	1	1	0	0	0
Medical Laboratory Technicians	5	6	1	0	1
Electrocardiograph Technicians	1	1	0	0	0
Dietetic Technicians	2	2	0	0	0
Radiologic &/or Nuclear Medical Technologists	4	5	1	0	1
All Other Medical & Dental Techs.	3	3	0	0	0
TOTAL SERVICE WORKERS	71	80	9	12	21
Maids	11	12	1	4	5
All Other Janitors, Porters & Cleaners	1	1	0	0	0
Guards & Doorkeepers	1	1	0	0	0
Kitchen Helpers	9	10	1	0	1
Cooks, Institution	11	12	1	0	1
Housekeepers	1	1	0	0	0
Nurse's Aides &/or Orderlies	37	43	6	8	14
TOTAL MAINTENANCE & PRODUCTION WORKERS	6	7	1	0	1
Maintenance Repairers, General Utility	6	7	1	0	1
TOTAL CLERICAL WORKERS	40	45	5	0	5
Bookkeeping &/or Billing Machine Operators	3	3	0	0	0
Stenographers	1	1	0	0	0
Accounting Clerks	2	2	0	0	0
Bookkeepers, Hand	1	1	0	0	0
General Clerks, Office	3	3	0	0	0
Insurance Clerks, Medical	3	4	1	0	1
Payroll &/or Timekeeping Clerks	2	2	0	0	0
Receptionists	2	2	0	0	0
Secretaries	2	2	0	0	0
Statistical Clerks	1	1	0	0	0
Switchboard Operators	2	2	0	0	0
Switchboard Operators/Receptionists	7	8	1	0	1
Typists	1	1	0	0	0
Clerical Supervisors	1	1	0	0	0
All Other Office Clerical Workers	9	12	3	0	3
TOTAL ALL OCCUPATIONS	231	262	31	28	59

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

PINAL COUNTY

	Estimated 1980 Employment	Projected 1984 Employment	Job Openings Due to Growth 1980-1984	Job Openings Due to Separations 1980-1984	Total Job Openings 1980-1984
TOTAL MANAGERS & OFFICERS	11	12	1	0	1
TOTAL PROFESSIONAL WORKERS	83	94	11	16	27
Industrial Engineers	1	1	0	0	0
Purchasing Agents &/or Buyers	2	2	0	0	0
Accountants & Auditors	2	2	0	0	0
Caseworkers	2	2	0	0	0
Dietitians &/or Nutritionists	2	2	0	0	0
Nurses, Professional	66	76	10	16	26
Occupational Therapists	1	1	0	0	0
Personnel & Labor Relations Specialists	1	1	0	0	0
Pharmacists	4	5	1	0	1
Physical Therapists	1	1	0	0	0
All Other Professional Workers	1	1	0	0	0
TOTAL TECHNICAL WORKERS	68	78	10	12	22
Licensed Practical Nurses	42	49	7	12	19
Surgical Technicians	2	2	0	0	0
Radiologic Technicians	4	5	1	0	1
Pharmacy Helpers	3	3	0	0	0
Medical-Records Librarians	2	2	0	0	0
Medical Laboratory Technologists	6	7	1	0	1
Microbiology Technologists	1	1	0	0	0
Medical Laboratory Technicians	4	5	1	0	1
Electrocardiograph Technicians	3	3	0	0	0
Electroencephalograph Technicians	1	1	0	0	0
TOTAL SERVICE WORKERS	164	187	23	32	55
Maids	26	30	4	8	12
All Other Janitors, Porters, & Cleaners	7	8	1	0	1
Guards & Doorkeepers	1	1	0	0	0
Dining Room Attendants	3	3	0	0	0
Kitchen Helpers	18	21	3	4	7
Cooks, Institution	7	8	1	0	1
All Other Food Service Workers	2	2	0	0	0
Supervisors, Nonworking -- Service Only	2	2	0	0	0
Housekeepers	2	2	0	0	0
Nurse's Aides &/or Orderlies	87	100	13	20	33
Psychiatric Aides	7	8	1	0	1
Social Service Aides	1	1	0	0	0
Medical Assistants	1	1	0	0	0
TOTAL MAINTENANCE & PRODUCTION WORKERS	16	18	2	0	2
Washers &/or Starchers, Machine	2	2	0	0	0
Maintenance Repairers, General Utility	6	6	0	0	0
Stationary Boiler Firers	4	5	1	0	1
Gardeners & Groundskeepers	4	5	1	0	1
TOTAL CLERICAL WORKERS	79	99	10	8	18
Bookkeeping &/or Billing Machine Operators	1	1	0	0	0
Keypunch Operators	2	2	0	0	0
Stenographers	11	12	1	4	5
Accounting Clerks	2	2	0	0	0
Bookkeepers, Hand	1	1	0	0	0
Cashiers	3	3	0	0	0
File Clerks	4	5	1	0	1
General Clerks, Office	1	1	0	0	0
Insurance Clerks, Medical	7	8	1	0	1
Payroll &/or Timekeeping Clerks	2	2	0	0	0
Personnel Clerks	2	2	0	0	0
Procurement Clerks	4	5	1	0	1

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

PINAL COUNTY (Continued)

	Estimated 1980 Employment	Projected 1984 Employment	Job Openings Due to Growth 1980-1984	Job Openings Due to Separations 1980-1984	Total Job Openings 1980-1984
Receptionists	4	5	1	0	1
Secretaries	4	5	1	0	1
Statistical Clerks	1	1	0	0	0
Switchboard Operators	4	5	1	0	1
Switchboard Operators/Receptionists	3	3	0	0	0
Typists	1	1	0	0	0
Clerical Supervisors	1	1	0	0	0
All Other Office Clerical Workers	15	18	3	4	7
Shipping Packers	2	2	0	0	0
Shipping &/or Receiving Clerks	3	3	0	0	0
Stock Clerks, Stockroom	1	1	0	0	0
TOTAL ALL OCCUPATIONS	421	478	57	68	125

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

PIMA COUNTY

	Estimated 1980 Employment	Projected 1984 Employment	Job Openings Due to Growth 1980-1984	Job Openings Due to Separations 1980-1984	Total Job Openings 1980-1984
TOTAL MANAGERS & OFFICERS	385	438	53	47	100
TOTAL PROFESSIONAL WORKERS	2,785	3,191	406	596	1,002
Electrical & Electronic Engineers	6	7	1	0	1
Statisticians	2	2	0	0	0
Biological Scientists	3	3	0	0	0
Medical Scientists	8	9	1	0	1
Psychologists	7	8	1	0	1
All Other Social Scientists	1	1	0	0	0
Systems Analysts, EDP	2	2	0	0	0
Purchasing Agents &/or Buyers	7	8	1	0	1
Accountants & Auditors	13	15	2	2	4
Caseworkers	56	64	8	12	20
Clergy	5	6	1	0	1
Dietitians &/or Nutritionists	30	34	4	8	12
Librarians, Professional	21	24	3	4	7
Nurses, Professional	2,013	2,309	296	480	776
Occupational Therapists	12	14	2	4	6
Personnel & Labor Relations Specialists	14	16	2	0	2
Pharmacists	91	104	13	16	29
Physical Therapists	44	50	6	8	14
Physicians &/or Surgeons	244	280	36	30	66
All Other Therapists	8	9	1	0	1
Manual-Arts, Music &/or Recreational Therapists	8	9	1	0	1
Speech Pathologists &/or Audiologists	10	11	1	0	1
Audiometrists	1	1	0	0	0
Respiratory Therapists	157	180	23	28	51
All Other Professional Workers	22	25	3	4	7
TOTAL TECHNICAL WORKERS	1,343	1,538	195	360	555
Computer Programmers	2	2	0	0	0
Electrical & Electronic Technicians	9	10	1	0	1
All Other Engineering Technicians	3	3	0	0	0
Biological Science Technicians	20	23	3	2	5
Dental Assistants	5	6	1	0	1
Licensed Practical Nurses	422	484	62	118	180
Physician's Assistants	1	1	0	0	0
Orthopists	1	1	0	0	0
Surgical Technicians	88	101	13	14	27
Radiologic Technicians	91	104	13	17	30
Pharmacy Helpers	90	103	13	22	35
Medical-Records Librarians	8	9	1	4	5
Medical Laboratory Technologists	207	237	30	45	75
Biochemistry Technologists	15	17	2	4	6
Microbiology Technologists	21	24	3	4	7
Cytotechnologists	8	9	1	0	1
Histologic Technologists	17	19	2	4	6
Prosthetists - Orthotists	1	1	0	0	0
Medical Laboratory Technicians	19	22	3	4	7
Electrocardiograph Technicians	31	36	5	4	9
Electroencephalograph Technicians	18	21	3	4	7
Dietetic Technicians	12	14	2	8	10
Blood Bank Technology Specialists	13	15	2	4	6
Physical Therapy Assistants	54	62	8	13	21
Radiologic &/or Nuclear Medical Technologists	62	71	9	16	25
All Other Medical & Dental Techs.	124	142	18	73	91
All Other Technicians	1	1	0	0	0
TOTAL SERVICE WORKERS	2,001	2,302	301	446	747
Maids	427	491	64	118	182
All Other Janitors, Porters, & Cleaners	32	37	5	4	9

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

PIMA COUNTY (Continued)

	Estimated 1980 Employment	Projected 1984 Employment	Job Openings Due to Growth 1980-1984	Job Openings Due to Separations 1980-1984	Total Job Openings 1980-1984
Guards & Doorkeepers	33	38	5	0	5
Bakers, Bread &/or Pastry	6	7	1	0	1
Dining Room Attendants	63	72	9	4	13
Kitchen Helpers	101	116	15	20	35
Counter Attendants, Cafeteria	48	55	7	12	19
Pantry, Sandwich &/or Coffee Makers	9	10	1	0	1
Cooks, Institution	58	67	9	9	18
All Other Food Service Workers	125	144	19	26	45
Supervisors, Nonworking -- Service Only	22	25	3	0	3
Housekeepers	20	23	3	4	7
Nurse's Aides &/or Orderlies	818	942	124	197	321
Psychiatric Aides	51	59	8	12	20
Orthopedic-Cast Specialists	4	5	1	0	1
Social Service Aides	9	10	1	0	1
Medical Assistants	33	38	5	8	13
Occupational Therapy Assistants	1	1	0	0	0
All Other Service Workers	141	162	21	32	53
TOTAL MAINTENANCE & PRODUCTION WORKERS	326	369	43	30	73
Mechanics, Automotive	3	3	0	0	0
Electromedical Equipment Repairers	10	11	1	0	1
Mechanics, Maintenance	15	17	2	0	2
Washers &/or Starchers, Machine	15	17	2	4	6
Laundry Pressers, Machine	24	27	3	7	10
Truck Drivers	1	1	0	0	0
Carpenters	12	14	2	0	2
Delivery &/or Route Workers	3	3	0	0	0
Electricians	12	14	2	0	2
Supervisors, Nonworking	17	19	2	0	2
Maintenance Repairers, General Utility	15	17	2	0	2
Helpers, Trades	20	23	3	1	4
Order Fillers	1	1	0	0	0
Painters, Maintenance	11	12	1	0	1
Plumbers &/or Pipefitters	8	9	1	0	1
Custom Sewers	1	1	0	0	0
Stationary Boiler Firers	6	7	1	0	1
Stationary Engineers	25	28	3	4	7
Gardeners & Groundskeepers	17	19	2	4	6
All Other Operatives & Semiskilled Workers	89	102	13	8	21
All Other Laborers & Unskilled Workers	21	24	3	2	5
TOTAL CLERICAL WORKERS	1,513	1,708	195	365	560
Bookkeeping &/or Billing Machine Operators	4	5	1	0	1
Computer Operators	14	16	2	0	2
Keypunch Operators	45	51	6	12	18
All Other Office Machine Operators	9	10	1	4	5
Stenographers	79	89	10	20	30
Accounting Clerks	36	41	5	8	13
Bookkeepers, Hand	3	3	0	0	0
Cashiers	26	29	3	6	9
File Clerks	103	116	13	32	45
General Clerks, Office	284	321	37	68	105
Library Assistants	9	10	1	4	5
Insurance Clerks, Medical	121	137	16	29	45
Order Clerks	32	36	4	8	12
Payroll &/or Timekeeping Clerks	20	22	2	4	6
Personnel Clerks	20	22	2	8	10
Procurement Clerks	11	12	1	0	1
Receptionists	46	52	6	15	21
Secretaries	122	138	16	33	49
Statistical Clerks	18	20	2	4	6

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

PIMA COUNTY (Continued)

	Estimated 1980 Employment	Projected 1984 Employment	Job Openings Due to Growth 1980-1984	Job Openings Due to Separations 1980-1984	Total Job Openings 1980-1984
Switchboard Operators	53	60	7	16	23
Switchboard Operators/Receptionists	5	6	1	0	1
Typists	93	105	12	28	40
Clerical Supervisors	72	81	9	8	17
All Other Office Clerical Workers	169	191	22	41	63
Production Clerks &/or Coordinators	1	1	0	0	0
Shipping Packers	4	5	1	0	1
Shipping &/or Receiving Clerks	23	26	3	1	4
Stock Clerks, Stockroom	37	42	5	4	9
All Other Plant Clerical Workers	54	61	7	12	19
TOTAL ALL OCCUPATIONS	8,353	9,546	1,193	1,844	3,037

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

SANTA CRUZ COUNTY

	Estimated 1980 Employment	Projected 1984 Employment	Job Openings Due to Growth 1980-1984	Job Openings Due to Separations 1980-1984	Total Job Openings 1980-1984
TOTAL MANAGERS & OFFICERS	2	2	0	0	0
TOTAL PROFESSIONAL WORKERS	26	30	4	4	8
Purchasing Agents &/or Buyers	1	1	0	0	0
Accountants & Auditors	1	1	0	0	0
Caseworkers	1	1	0	0	0
Dietitians &/or Nutritionists	1	1	0	0	0
Nurses, Professional	19	23	4	4	8
Pharmacists	1	1	0	0	0
Manual-Arts, Music, &/or Recreational Therapists	2	2	0	0	0
TOTAL TECHNICAL WORKERS	16	18	2	0	2
Licensed Practical Nurses	4	5	1	0	1
Surgical Technicians	4	5	1	0	1
Radiologic Technicians	2	2	0	0	0
Medical-Records Librarians	1	1	0	0	0
Medical Laboratory Technologists	3	3	0	0	0
Medical Laboratory Technicians	1	1	0	0	0
Physical Therapy Assistants	1	1	0	0	0
TOTAL SERVICE WORKERS	58	67	9	14	23
Guards & Doorkeepers	6	7	1	0	1
Kitchen Helpers	10	12	2	4	6
Cooks, Institution	2	2	0	0	0
Nurse's Aides &/or Orderlies	40	46	6	10	16
TOTAL MAINTENANCE & PRODUCTION WORKERS	3	3	0	0	0
Truck Drivers	1	1	0	0	0
Maintenance Repairers, General Utility	2	2	0	0	0
TOTAL CLERICAL WORKERS	19	21	2	0	2
Bookkeeping &/or Billing Machine Operators	1	1	0	0	0
Cashiers	2	2	0	0	0
File Clerks	2	2	0	0	0
General Clerks, Office	5	7	2	0	2
Insurance Clerks, Medical	1	1	0	0	0
Payroll &/or Timekeeping Clerks	1	1	0	0	0
Personnel Clerks	1	1	0	0	0
Secretaries	2	2	0	0	0
Switchboard Operators/Receptionists	2	2	0	0	0
Clerical Supervisors	1	1	0	0	0
Stock Clerks, Stockroom	1	1	0	0	0
TOTAL ALL OCCUPATIONS	124	141	17	18	35

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

YAVAPAI COUNTY

	Estimated 1980 Employment	Projected 1984 Employment	Job Openings Due to Growth 1980-1984	Job Openings Due to Separations 1980-1984	Total Job Openings 1980-1984
TOTAL MANAGERS & OFFICERS	26	30	4	4	8
TOTAL PROFESSIONAL WORKERS	171	194	23	33	56
Mechanical Engineers	1	1	0	0	0
Medical Scientists	1	1	0	0	0
Psychologists	1	1	0	0	0
Systems Analysts, EDP	1	1	0	0	0
Purchasing Agents &/or Buyers	2	2	0	0	0
Accountants & Auditors	1	1	0	0	0
Caseworkers	2	2	0	0	0
Clergy	1	1	0	0	0
Dietitians &/or Nutritionists	2	2	0	0	0
Nurses, Professional	140	161	21	33	54
Personnel & Labor Relations Specialists	1	1	0	0	0
Pharmacists	6	7	1	0	1
Physical Therapists	3	3	0	0	0
All Other Therapists	1	1	0	0	0
Manual-Arts, Music, &/or Recreational Therapists	1	1	0	0	0
Respiratory Therapists	7	8	1	0	1
TOTAL TECHNICAL WORKERS	107	122	15	14	29
All Other Engineering Technicians	4	5	1	0	1
Licensed Practical Nurses	37	42	5	10	15
Surgical Technicians	7	8	1	0	1
Radiologic Technicians	5	6	1	0	1
Pharmacy Helpers	4	5	1	0	1
Medical-Records Librarians	6	7	1	0	1
Medical Laboratory Technologists	10	11	1	0	1
Microbiology Technologists	5	6	1	0	1
Histologic Technologists	1	1	0	0	0
Medical Laboratory Technicians	2	2	0	0	0
Electrocardiograph Technicians	2	2	0	0	0
Dietetic Technicians	3	3	0	0	0
Blood Bank Technology Specialists	2	2	0	0	0
Physical Therapy Assistants	5	6	1	0	1
Radiologic &/or Nuclear Medical Technologists	13	15	2	4	6
All Other Medical & Dental Techs.	1	1	0	0	0
TOTAL SERVICE WORKERS	173	198	25	29	54
Maids	35	40	5	8	13
All Other Janitors, Porters, & Cleaners	2	2	0	0	0
Guards & Doorkeepers	2	2	0	0	0
Dining Room Attendants	13	15	2	0	2
Kitchen Helpers	10	11	1	0	1
Counter Attendants, Cafeteria	4	5	1	0	1
Cooks, Institution	6	7	1	0	1
All Other Food Service Workers	5	6	1	0	1
Supervisors, Nonworking -- Service Only	2	2	0	0	0
Housekeepers	3	3	0	0	0
Nurse's Aides &/or Orderlies	91	105	14	21	35
TOTAL MAINTENANCE & PRODUCTION WORKERS	19	21	2	0	2
Electromedical Equipment Repairers	2	2	0	0	0
Laundry Pressers, Machine	4	4	0	0	0
Carpenters	1	1	0	0	0
Maintenance Repairers, General Utility	8	10	2	0	2
Order Fillers	1	1	0	0	0
Stationary Engineers	1	1	0	0	0
Gardeners & Groundskeepers	1	1	0	0	0
All Other Operatives & Semiskilled Workers	1	1	0	0	0

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

YAVAPAI COUNTY (Continued)

	Estimated 1980 Employment	Projected 1984 Employment	Job Openings Due to Growth 1980-1984	Job Openings Due to Separations 1980-1984	Total Job Openings 1980-1984
TOTAL CLERICAL WORKERS	106	119	13	17	30
Computer Operators	1	1	0	0	0
Keypunch Operators	3	3	0	0	0
Peripheral EDP Equipment Operators	4	5	1	0	1
Stenographers	9	10	1	4	5
Accounting Clerks	5	6	1	0	1
Bookkeepers, Hand	1	1	0	0	0
Cashiers	1	1	0	0	0
File Clerks	6	7	1	0	1
General Clerks, Office	4	4	0	0	0
Insurance Clerks, Medical	11	12	1	4	5
Order Clerks	7	8	1	0	1
Payroll &/or Timekeeping Clerks	1	1	0	0	0
Personnel Clerks	1	1	0	0	0
Procurement Clerks	1	1	0	0	0
Receptionists	4	4	0	0	0
Secretaries	7	8	1	0	1
Switchboard Operators	5	6	1	0	1
Switchboard Operators/Receptionists	4	4	0	0	0
Typists	18	20	2	5	7
All Other Office Clerical Workers	12	15	3	4	7
All Other Plant Clerical Workers	1	1	0	0	0
TOTAL SALES WORKERS	1	1	0	0	0
Sales Clerks	1	1	0	0	0
TOTAL ALL OCCUPATIONS	603	685	82	97	179

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

YUMA COUNTY

	Estimated 1980 Employment	Projected 1984 Employment	Job Openings Due to Growth 1980-1984	Job Openings Due to Separations 1980-1984	Total Job Openings 1980-1984
TOTAL MANAGERS & OFFICERS	3	3	0	0	0
TOTAL PROFESSIONAL WORKERS	186	212	26	39	65
Mechanical Engineers	2	2	0	0	0
Purchasing Agents &/or Buyers	2	2	0	0	0
Caseworkers	2	2	0	0	0
Clergy	3	3	0	0	0
Dietitians &/or Nutritionists	2	2	0	0	0
Librarians, Professional	1	1	0	0	0
Nurses, Professional	151	174	23	35	58
Personnel & Labor Relations Specialists	1	1	0	0	0
Pharmacists	4	5	1	0	1
Physical Therapists	2	2	0	0	0
Manual-Arts, Music, &/or Recreational Therapists	1	1	0	0	0
Respiratory Therapists	15	17	2	4	6
TOTAL TECHNICAL WORKERS	156	178	22	34	56
Computer Programmers	3	3	0	0	0
Licensed Practical Nurses	95	110	15	26	41
Surgical Technicians	6	7	1	0	1
Radiologic Technicians	8	9	1	0	1
Medical-Records Librarians	1	1	0	0	0
Medical Laboratory Technologists	14	16	2	4	6
Biochemistry Technologists	2	2	0	0	0
Microbiology Technologists	3	3	0	0	0
Histologic Technologists	2	2	0	0	0
Medical Laboratory Technicians	1	1	0	0	0
Electrocardiograph Technicians	4	5	1	0	1
Blood Bank Technology Specialists	1	1	0	0	0
Physical Therapy Assistants	1	1	0	0	0
Radiologic &/or Nuclear Medical Technologists	13	15	2	4	6
All Other Medical & Dental Techs.	2	2	0	0	0
TOTAL SERVICE WORKERS	236	270	34	49	83
Maids	41	47	6	12	18
All Other Janitors, Porters, & Cleaners	4	5	1	0	1
Guards & Doorkeepers	6	7	1	0	1
Dining Room Attendants	2	2	0	0	0
Kitchen Helpers	26	30	4	4	8
Cooks, Short Order &/or Specialty Fast Foods	3	3	0	0	0
Cooks, Institution	2	2	0	0	0
Supervisors, Nonworking -- Service	2	2	0	0	0
Housekeepers	1	1	0	0	0
Nurse's Aides &/or Orderlies	135	155	20	33	53
Psychiatric Aides	7	8	1	0	1
Orthopedic-Cast Specialists	6	7	1	0	1
Social Service Aides	1	1	0	0	0
TOTAL MAINTENANCE & PRODUCTION WORKERS	24	27	3	0	3
Laundry Pressers, Machine	4	5	1	0	1
Supervisors, Nonworking	3	3	0	0	0
Maintenance Repairers, General Utility	15	17	2	0	2
Gardeners & Groundskeepers	2	2	0	0	0
TOTAL CLERICAL WORKERS	188	210	22	37	59
Computer Operators	6	7	1	0	1
Keypunch Operators	4	4	0	0	0
Stenographers	2	2	0	0	0
Accounting Clerks	5	6	1	0	1
Bookkeepers, Hand	3	3	0	0	0
Cashiers	12	13	1	4	5

CURRENT AND PROJECTED ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

YUMA COUNTY (Continued)

	Estimated 1980 Employment	Projected 1984 Employment	Job Openings Due to Growth 1980-1984	Job Openings Due to Separations 1980-1984	Total Job Openings 1980-1984
General Clerks, Office	57	65	8	13	21
Insurance Clerks, Medical	15	17	2	4	6
Order Clerks	5	6	1	0	1
Payroll &/or Timekeeping Clerks	3	3	0	0	0
Personnel Clerks	5	6	1	0	1
Procurement Clerks	2	2	0	0	0
Secretaries	26	29	3	8	11
Statistical Clerks	9	10	1	0	1
Switchboard Operators	15	17	2	4	6
Typists	9	10	1	4	5
Clerical Supervisors	2	2	0	0	0
Shipping &/or Receiving Clerks	2	2	0	0	0
Stock Clerks, Stockroom	4	4	0	0	0
All Other Plant Clerical Workers	2	2	0	0	0
TOTAL ALL OCCUPATIONS	793	900	107	159	266

METHODOLOGY

Limitations of the Data

The projection methods do not account for cyclical, seasonal, and such external factors as sudden and large establishment openings or closings. The methodology also assumes that the labor market areas are self-contained and generally devoid of significant levels of commuting and migration from one area to another for employment.

The occupational data in this publication only refer to employees who earned a wage or salary. Self-employed and unpaid family workers are not represented in the statistics.

Sample Selection and Response Rate

Occupational estimates for the hospital industry were developed from a survey of hospitals throughout Arizona. Fifty-seven hospitals were surveyed and a usable response rate of 100.0 percent was attained. Hospitals administered by the federal government and those operated by firms primarily involved in other activities, i.e., mining, are not included.

Employment Projections

Hospital employment was projected using regression analysis and was adjusted to reflect recent industry developments. The 1984 occupational employment was calculated by applying adjusted staffing pattern ratios (as determined by the survey) to the industry projections. The adjustments to the ratio reflect national trends of evolving occupational distribution.[1]

Job Openings

The difference betweeen 1980 and 1984 employment for each occupation represents expected job openings due to growth. Job openings due to separations were calculated by interpolating 1970 and 1985 separation rates for each occupation[2] and applying them to the occupational employment projections. Total job openings is the sum of openings due to growth and separations.

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1 "Tomorrow's Manpower Needs," Vol. IV. BLS, Feb. 1971 pp. 108-110.
2 "Tomorrow's Manpower Needs," Supplement No. 4, BLS, 1974, pp. 11-16.

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